



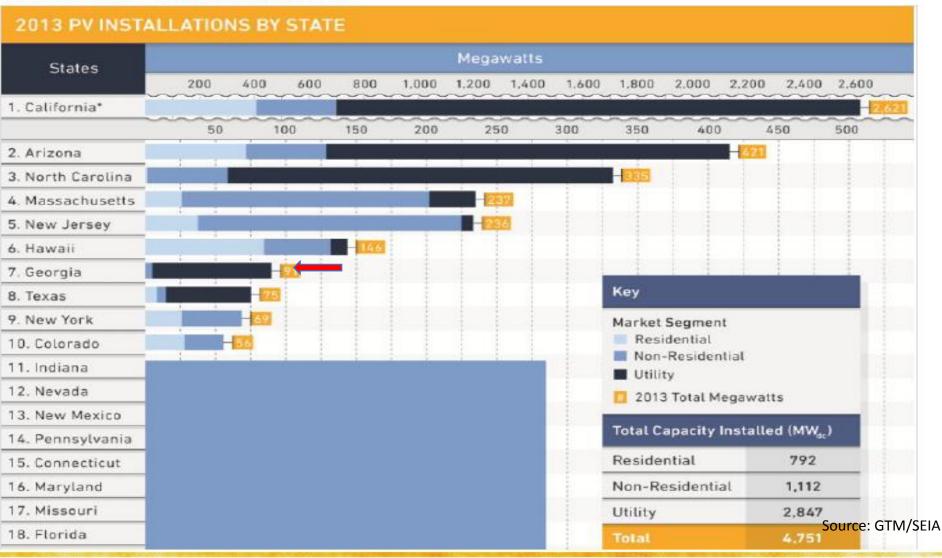


### Southeast PV Overview

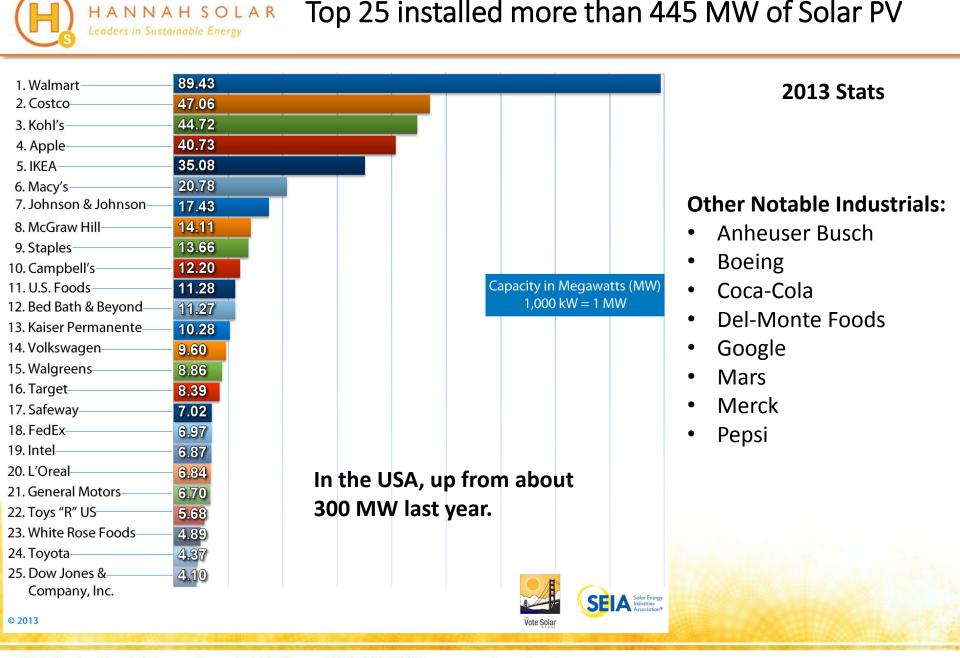


## Top US States in 2013

#### Figure 2.6 State PV Installation Rankings, 2013



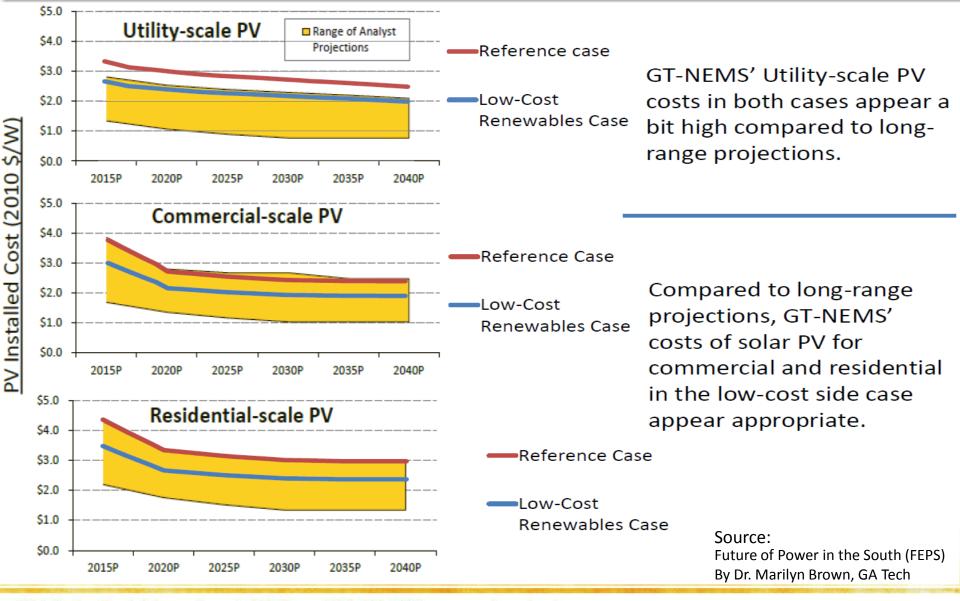
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## The 'New' Cost of Solar



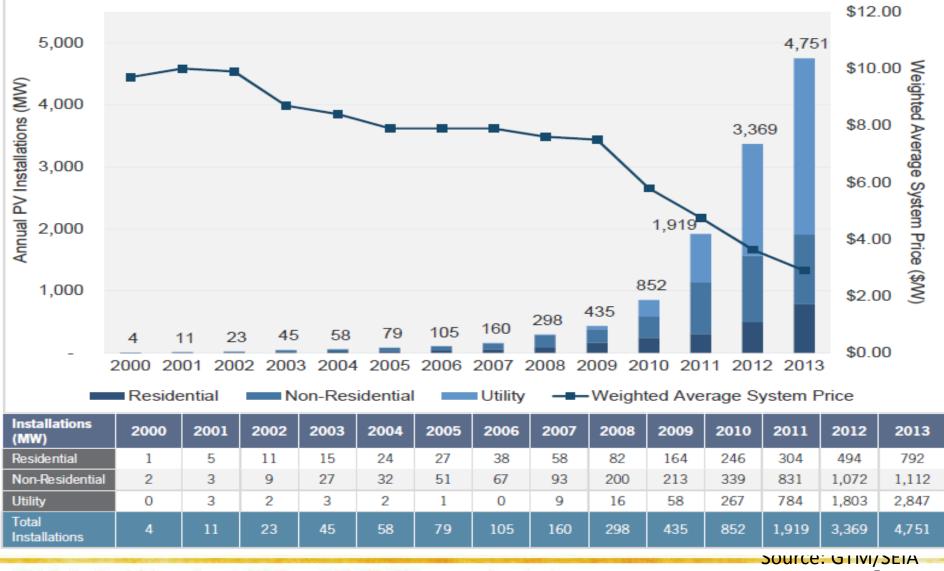
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#### Another Record Year in US and Lower Costs



#### Figure 2.1 U.S. PV Installations and Average System Price, 2000-2013



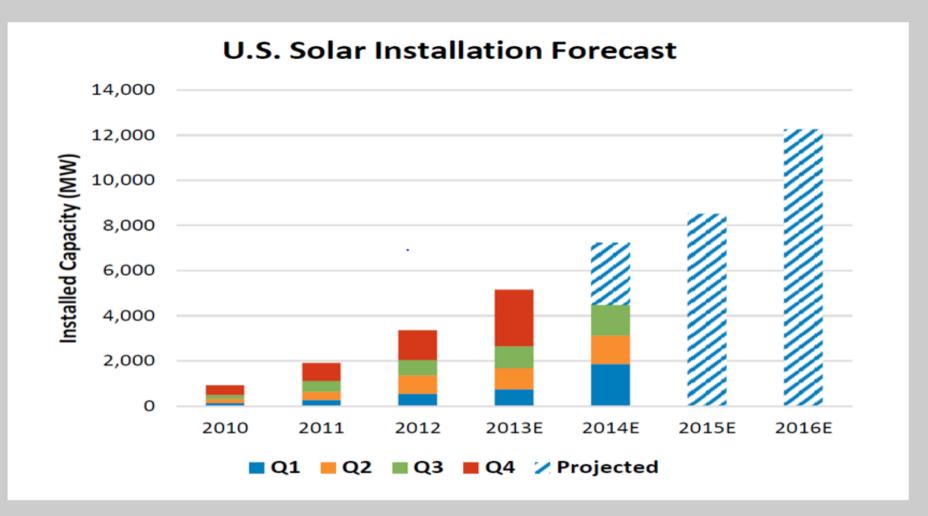
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**Solar Growth** 

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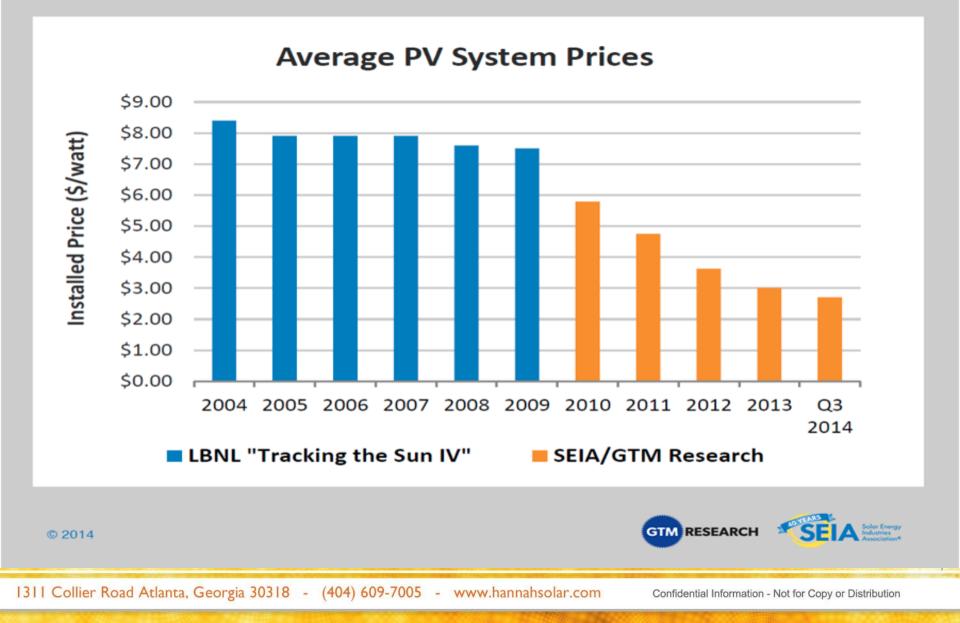


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## **Installed PV Cost Reduction**

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## & The Landscape has Changed!

- Residential
- Solarize Programs
- Community Solar
- Utility Scale Solar
- Commercial & Industrial



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## **The Future Is Today**

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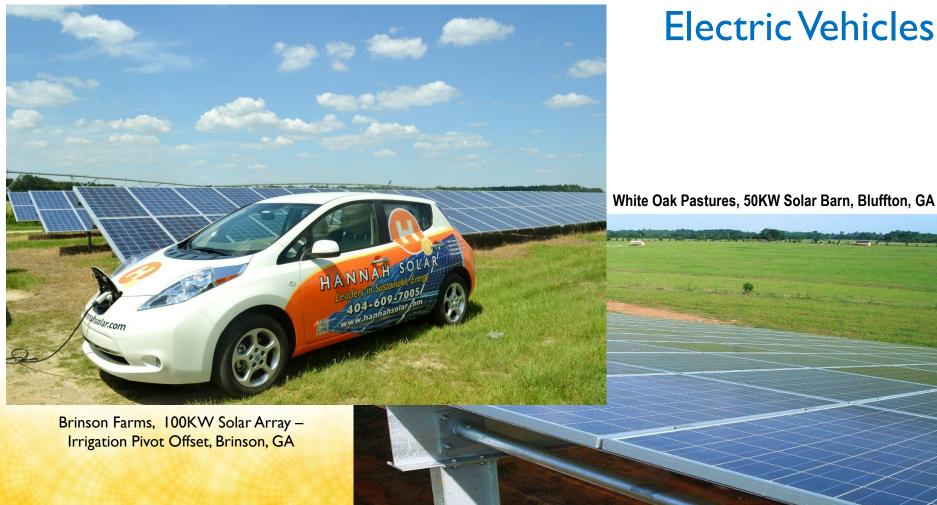
Cost of Storage? Value of Storage? Compensation for Storage?

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## **Economics & Sustainability**

## Two key metrics driving the adoption of Solar &



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## **PV4EV**

#### **Features**

- Solar PV canopy over cars
- An attractive structure
- EV charging stations
- Advertising media
- Financing
- Marketing assistance



#### **Benefits**

Property differentiation, PR Brand exposure for an advertiser Advertising revenue EV drivers will seek & frequent Association with clean energy Solar revenue & ROI Shade and rain cover



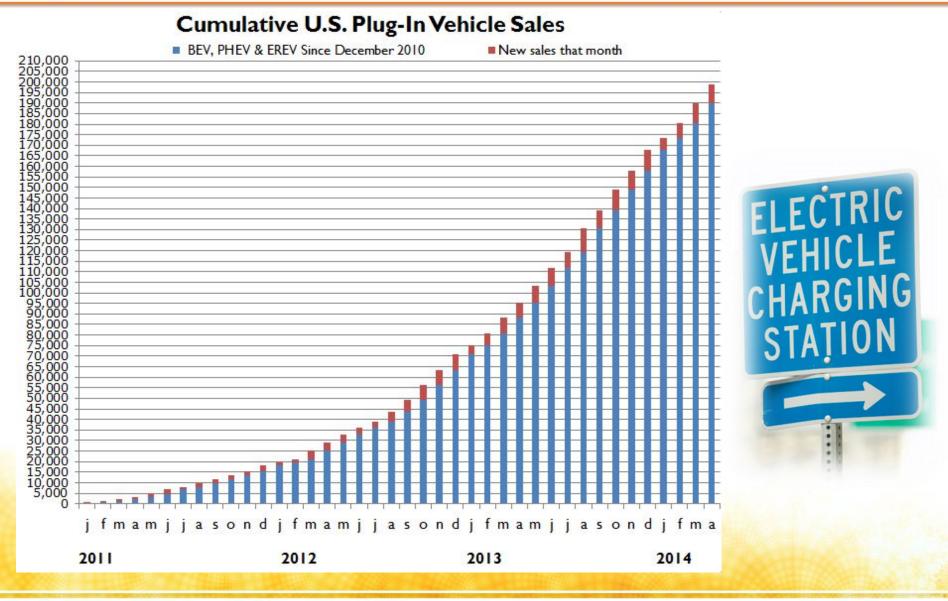
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- The solar carport market has become an increasingly substantial sector, growing to 157 MW in 2013.
- 2014 is expected to be the fourth consecutive year during which greater than 100 MW of solar carport installations were installed.
- Historically seen as a niche market, exploited state-level incentives to grow the market at a CAGR of 45% from 2010 to 2014.

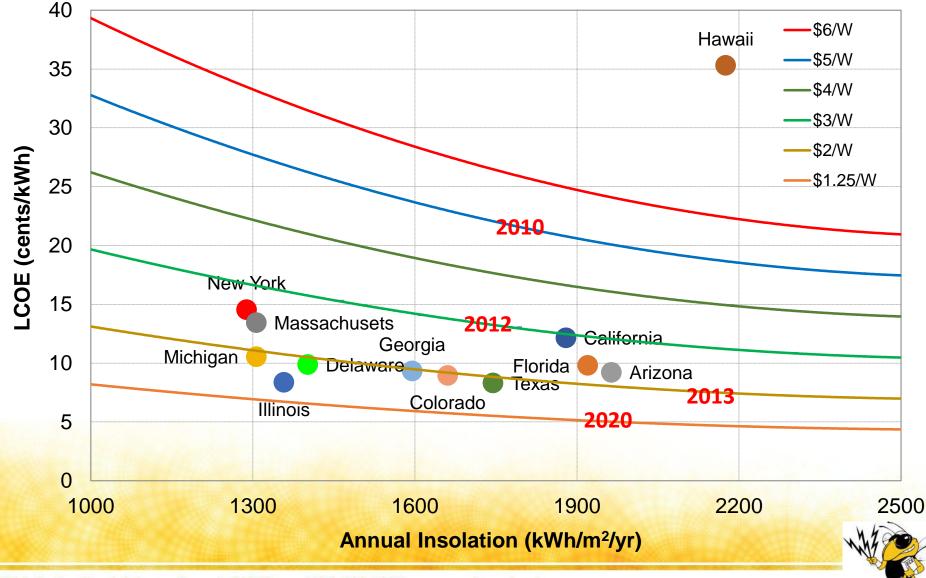






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#### LCOE as a Function of System Cost and Solar Insolation

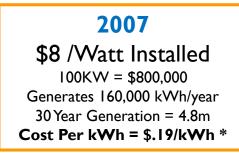


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Delivered cost per kilowatt hour (kWh) With no incentives



2009

#### \$6.25 /Watt Installed

100KW = \$625,000 Generates 160,000 kWh/year 30 Year Generation = 4.8m Cost Per kWh = \$.15/kWh \*

#### **2012** \$3.00 /Watt Installed 100KW = \$300,000 Generates 160,000 kWh/year 30 Year Generation = 4.8m **Cost Per kWh = \$.08/kWh \***

\* Assumes 30 years of operation & maintenance and capital at 6%.

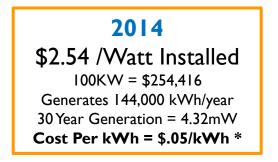


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Delivered cost per kilowatt hour (kWh) 2014 Actual With incentives

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\$254,416 Project Cost <u>-\$241,695 (</u>Tax Credit) = \$12,721 = .001 per kWh <u>FIXED</u> 30 Yrs.

\* Assumes 30 years of operation & maintenance and capital at 6%.



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#### Camp Lejeune Marine Base

#### Size:742 kw

Location: Camp Lejeune US Marine Base, New River, NC

Client: Dept. of Defense Installation Time: 2 months Project Date: April, 2014 Modules: Suniva Mounting: Solaire Canopy



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## **Solar Overview Presentation**

## **Thank You**

2014





**Contact Information** 

# Hannah Solar, 1311 Collier Road Atlanta, GA 30318; Direct phone: 404.609.7005

- Peter Marte, CEO
- <u>Pete.marte@hannahsolar.com</u> 678-860-8042

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